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CONFIDENTIAL

26 SEPTEMBER 1958

MEMORANDUM FOR :

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CHIEF, SPECIAL PROJECTS STAFF
1507 QUARTERS EYE

SUBJECT

: DEFICIENCIES FOUND IN SPECIAL TSS
3M READER-PRINTER

1. AS PER OUR TELCON OF 24 SEPTEMBER 1958, WE LIST HERewith THE DEFICIENCIES FOUND IN THE SPECIAL PROTOTYPE OF THE 3M READER-PRINTER, FABRICATED FOR TSS BY THE 3M FACTORY, AS A PILOT MODEL TO OUR ORDER FOR FIFTY (50) UNITS:

A. THE SPRING CLIP, ADDED TO SECURE THE LAMP HOUSING ASSEMBLY, IS INEFFECTIVE. NEEDS TO BE REPLACED BY A MORE POSITIVE HOLDING DEVICE.

B. THE GLASS WINDOW DISC IS MOST DIFFICULT TO REMOVE FOR CLEANING. A FINGERNAIL INDENT IN THE LOWER GLASS MASK WOULD GREATLY ASSIST.

C. THE LENS SUPPLIED FOR USE WITH 16MM FILM COMES TO FOCUS AT THE END OF ITS THREADS. PREFER THAT FOCUS OCCUR AT CENTER OF THE THREADS TO PROVIDE SOME LEeway FOR ACCOMMODATION OF FILMS OF VARIOUS THICKNESS, REVERSE IMAGE ETC.

D. THE LENS SUPPLIED FOR USE WITH 35MM FILM IS FAR TOO LARGE PHYSICALLY, AND MUST BE COMPLETELY REMOVED BEFORE THE 16MM LENS CAN BE USED. IT WOULD BE PREFERABLE THAT THE MACHINE BE CAPABLE OF USE WITH 16MM OR 35MM FILMS WITHOUT THE NECESSITY OF HAVING TO REMOVE EITHER LENS. (THIS POINT WAS DISCUSSED WITH THE 3M REPRESENTATIVE WHO DELIVERED AND SET UP THE PROTOTYPE. HE SAID 3M HAS ANOTHER LENS WHICH WILL BE SMALLER.)

E. THE WIRE HOUSING TUBE (PLASTIC INSULATION SLEEVE), COVERING THE WIRES ON THE BOTTOM OF THE INTERLOCK SWITCH DOES NOT EXTEND FAR ENOUGH DOWN TO COMPLETELY COVER THE UNINSULATED ENDS OF THE WIRES. THIS TUBE SHOULD BE LENGTHENED.

F. THE RUBBER BAND /

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DOC	21	REV DATE	8 JULY 80	BY	052447
ORIG COMP	056	OPI	06	TYPE	02
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F. THE RUBBER BAND SUPPORTING THE MIRROR (FOR SHIPPING) WILL NOT BE ADEQUATE CONSIDERING THE FACT THAT THESE MACHINES WILL BE WAREHOUSED, THEN SHIPPED AS NEEDED. IT IS FELT THAT THE RUBBER BAND MIGHT DEGRADATE AND/OR BREAK ON ANY UNIT WHICH REMAINS IN STOCK FOR ANY EXTENDED PERIOD.

G. THREE OF THE FOUR ROLLS OF PAPER BROUGHT WITH THE MACHINE WERE DEFECTIVE. ALTHOUGH THIS WAS BROUGHT TO OUR ATTENTION BY THE 3M REPRESENTATIVE, WHO LEFT THEM WITH US AT OUR REQUEST, IT IS MENTIONED BECAUSE WE HAVE ORDERED 700 ROLLS OF THE READER-PRINTER PAPER. WE WANT TO BE SURE WE GET 700 GOOD ROLLS.

H. THE SERIAL PLATE ON THE LOWER REAR OF THE MACHINE STATES THAT THE UNIT WILL FUNCTION ON 60 CYCLES. THIS MUST BE CHANGED TO READ 50/60 CYCLES. (WE HAVE BEEN ASSURED BY 3M THAT IT WILL OPERATE ON 50 OR 60 CYCLES.)

I. INSTRUCTIONS FOR THE MODEL 23 SHOULD BE REVISED AS NEEDED TO SUIT THIS VERSION OF THE READER-PRINTER.

2. THERE ARE SEVERAL OTHER POINTS WHICH WE WOULD LIKE TO BRING TO THE 3M COMPANY'S ATTENTION. THEY NEED NOT BE CONSIDERED AS DEFICIENCIES, AS FAR AS OUR ORDER FOR FIFTY (50) UNITS IS CONCERNED, ALTHOUGH WE FEEL THEY ARE WELL WORTH CONSIDERING FOR THE FUTURE.

A. THE TRADE NAME "THERNOFAX" APPLIED TO THE READER-PRINTER MACHINE IS MOST MISLEADING. SEVERAL "USERS" HAVE ALREADY APPROACHED US WITH QUESTIONS AS TO WHETHER THE READER-PRINTER USES THERNOFAX PAPER OR NOT, ALSO WHETHER THE READER-PRINTER IS LIMITED TO METALLIC AND CARBON ORIGINALS AS IS THE THERNOFAX. THEY EVIDENTLY ARE TAKING THE THERNOFAX NAME ON THE MACHINE AND LITERATURE TO MEAN THAT THIS IS ANOTHER VERSION OF THE THERNOFAX "SECRETARY."

B. SO FAR, EVERYTHING SEEMS TO INDICATE THAT AN ACTIVATOR REPLENISHMENT SYSTEM WOULD BE HIGHLY DESIRABLE. A GRAVITY FLOW OR DEMAND-TYPE SYSTEM SUCH AS IS USED ON THE APECO DIAL-A-MATIC MACHINE MIGHT SUFFICE, AND WOULD ONLY REQUIRE A HOLE IN THE APPROPRIATE SPOT OF THE TOP AND REAR DOOR WELDMENT ASSEMBLY TO ACCOMMODATE THE REPLENISHMENT BOTTLE.

C. THE SPONGE SYSTEM /

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C. THE SPONGE SYSTEM IS THE MACHINE'S WEAKEST POINT. I BELIEVE THE FACTORY IS AWARE OF THIS, SO I WILL NOT PURSUE THE MATTER FURTHER.

D. THE IDEA WE HAD OF INSERTING A THIN SHEET OF PLASTIC BETWEEN THE SPONGE AND PAPER WHILE THE MACHINE IS IDLE IS STILL APPEALING TO US. THE SHEET PREVENTS THE PAPER STOCK FROM SOAKING UP THE ACTIVATOR SOLUTION AND RESULTS IN LESS FREQUENT ADDITIONS OF ACTIVATOR PLUS LESS ACTIVATOR DRIPPING DOWN INTO THE INSIDE OF THE MACHINE.

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ROUTING AND RECORD SHEET **CONFIDENTIAL**

SUBJECT: (Optional)

References Found in Special TSS 3M Reader Printer

FROM: *TSS/PSD*

NO. *Memo*

DATE *26 Sept 1958*

TO: (Officer designation, room number, and building)

DATE
REC'D FWD'D

OFFICER'S INITIALS

COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)

1.	<i>TSS/ED</i>	<i>9/29</i>	<i>95</i>
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info
Howie #3
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